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Austria (Soviet Zone)

REPORT

Soviet Models Yal and R-1 River Mines.

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EVALUATION

DATE OF CONTENT

DATE OBTAINED

REFERENCES

PAGES 2 ENCLOSURES (NO. & TYPE)

REMARKS

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A notebook seen in a Soviet naval billet at 27 Kanalstrasse, Korneuburg, on 17 February 1951 contained the following data on Soviet models Yal and R-1 river mines:

Description of the Model Yal Mine:

Weight of charge: 0.20 kg.
 Maximum mooring depth: 50 meters.
 Minimum mooring depth: 2.5 meters.
 Length of mooring cable: 53 meters, diameter 3.5 mm.
 Maximum speed for minelaying: 21 knots.
 Mine spacing: 20 meters.
 Time required to aim the mine after laying: 10 to 20 minutes to dissolve the soluble sugar plug.
 Length of mine: 675 to 680 mm.
 Width of mine: 580 mm.
 Height of mine: 970 to 980 mm.
 Total weight of mine: 175 kg.
 Weight of live mine: 62 kg.
 Weight of anchor: 113 kg.
 Time required for preliminary operations: 5 minutes.
 Time required to set mine: 2.5 minutes.
 Life of mine: 5 months.
 The mine consists of the following parts:
 Mine case with explosive charge.
 Detonator chamber.
 Detonator.
 Detonator handle.
 Safety cartridge.
 Three galvanized horns with safety devices.
 Soluble sugar-plug.
 Dry cell battery (sic)
 Mine anchor with mooring cable and mechanical depth-setting gear.
 Sugar K 1 and K 2 (sic)
 Length of plummet: 2.5 meters.
 Weight of plummet: 10 kg
 Length of one winding of plummet cord: 250 mm

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Moored mine, weight 275 kg, weight of anchor 160 kg, weight of explosive charge 40 kg.
Weight of live mine: 115 kg.
Explosive charge: Trotyl (Trotil).
Maximum speed for minelaying: 21 knots.
Maximum mooring depth: 30 meters.
Minimum mooring depth: 1.8 meters.
Laying is done automatically with a depth setting of 0.5 to 0.2 meters.
Length of mooring cable: 35 meters for cable 4.8 mm in diameter.
21 meters for cable 6.2 mm in diameter.
Mine spacing: 20 meters.
Buoyancy reserve: 40 hours/km.
Time required to aim the mine: 15 to 20 minutes.
Rising speed of mine: 0.17 meter/sec.
The mine consists of the following parts:
Mine case with explosive-charge.
Detonator chamber.
Two galvanized horns.
Safety device.
Mechanism of mine.
Anchor.
Soluble sugar-plug with check rope and turnbuckle.
Sugar.

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*  Comment. The weight of 0.20 kg mentioned in connection with the charge of the model Ya-M mine is probably a mistake and should read 20 kg. The term buoyancy reserve of 40 hours per km in the description of the R-1 mine is not clear. The type designations of the two mines were not previously known.

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